



# Release Notes for CPE/CS3 Switch Software Release 2.2.0.3 for Cisco MGX 8240 Private Line Service Gateway

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# Introduction

These release notes summarize the functions of the Cisco MGX 8240 Private Line Service Gateway switch software, Release 2.2.0.3. These notes describe new features and enhancements as well as a list of known caveats that have been fixed and verified since the previous deployed Release (1.1.2.10). The document also lists open caveats.

These notes are intended for customer functional and operational groups and Cisco System Engineers responsible for installing and provisioning the Cisco MGX 8240 Private Line Service Gateway.

## New and Changed Information

The Cisco MGX 8240 Private Line Service Gateway systems previously shipped are to be upgraded to the new switch software.

The purpose of this release is to resolve problems found in the switch functions. Therefore, there are no new features as part of this release.

The following fixes and enhancements have been incorporated into Release 2.2.0.3:

- Support for APS protected Channelized Access OC3 interface
- Major rework and improvement of redundancy
- Support of 2016 DS0 circuits
- SNMP trap IP address changes and enhancements
- CES connection loopback towards TDM or ATM
- Connection BERT towards TDM or ATM
- OAM loopback delay test
- DS1 Out-Of-Frame Stats
- Connection based control of Loss of Cells reporting
- T1 SF and ESF loopback support
- Improved bootup diagnostics

## Upgraded Products

The software upgrade procedure supports the following Switch Software Releases:

- 1.1.2.10 (general release of 3/5/99)
- 2.1.0.6 (general release of 8/11/99)
- 2.2.0.1 (general release of 9/9/99)

**Note**

All Releases prior to Release 1.1.2.10 must first be upgraded to Release 1.1.2.10 using the upgrade procedure for Release 1.1.2.10, before this Release can be applied.

Before the Cisco MGX 8240 CPE software can be upgraded, the VCLI must first be upgraded to Version 2.1.0 or higher. Separate documents provide release notes for the VCLI and information on upgrade procedures for the VCLI.

Finally, the Cisco MGX 8240 CPE can be upgraded from Release 1.1.2.10 directly to Release 2.2.0.3 or from Release 2.1.0.6 to Release 2.2.0.3 using the Upgrade Procedure provided in the accompanying documentation.

## Caveats

The following bugs that existed in Release 2.2.0.1 have been fixed and verified in Release 2.2.0.3.

DDTS Number	Severity	Functional Area	Problem Description	Corrected	
Dp31145	2	DS1	DS3 Receive Yellow Alarm caused trunk conditioning on all DS1s.	Trunk conditioning is no longer sent in this case.	Fixed.
Dp18470	2	BERT	Second Circuit BERT on same circuit/DS1 fails.	Now supported.	Fixed.
Dm83980	2	Reference Clock	Setting force free run to same value causes inadvertent clock switch.	Setting to same value now has no effect.	Fixed
Dp18436	2	Upgrade	Stale directories and files cause upgrade failures.	Stale directories removed; stale files ignored.	Fixed
Dp18901	2	Alarms	Alarm Entity Id has new format.	To handle the Access OC3 and provide a scheme that grows for future releases, the string format was modified.	The format had to be changed. Future changes are not anticipated.

## Resolved Caveats—Release 2.2.0.1

The following bugs that existed in Release 2.1.0.6 were fixed and verified in Release 2.2.0.1.

DDTS Number	Severity	Functional Area	Problem Description	Corrected	
Dm77697	2	Mfg record	Switch manufacturing record is not available for reading.	Mfg record is now reported.	Fixed
Dm77794	2	Statistics	The SONET FarEnd Line 24Hr UAS Threshold can not be set.	Will be fixed in FCS release.	Defaulted to 10 secs

## Open Caveats—Release 2.2.0.1

Cisco MGX 8240 CPE/CS3 Switch software (Release 2.2.0.1) has some known problems. Every attempt has been made to address and resolve the problems of high severity. Below are the lists of known bugs that exist in the Cisco MGX 8240 system, including all outstanding problems related to the CES modules and associated I/O ports. The second column is the defect severity. A number 0 represents the greatest severity, while 5 is the least severe.

DDTS Number	Severity	Functional Area	Problem Description	Corrected	
Sn04840	1	Switch Shaping	Policing on Ascend 550 causes inband cells to be dropped because Maximum Burst Size(MBS) is not configurable and fixed to 1024 cells.	Do not turn on policing at Ascend, or set it to 1024 cells.	Same as 1.1.1.2
Sn04752	3	Switch Craft Interface	Double ESC required to exit from DS1 statistics window on Craft Interface.		Same as 1.1.1.2

Sn05174	0	Xyplex	FTP failed sometimes due to Xyplex's problem.	Pending on Xyplex new fix.	Same as 1.1.1.11
Sn05203	2	BERT	Circuit will not pass data if it is created while DS1s on both ends of a local circuit are under BERT.	Workaround: Delete and create the circuit again after the BERT is stopped.	Same as 1.1.1.11
Sn05554	1	FE Loopback	If the user manipulates the far-end DS1 loop modes more rapidly than the 1.5 second (the loop send code duration time), the far-end Larscom CSU/DSU and the Cisco MGX 8240 DS1 port are both in a loop up mode. Once this happens, the loop down command issued from Sentient NMS is unable to take Larscom CSU/DSU out of a loop.	Workaround: <ol style="list-style-type: none"> <li>1. On NMS go to the port's Near End Loopback. Invoke a Near End Loopback, then drop the loop.</li> <li>2. Go to the Far End Loopback and invoke the loop first and then drop it.</li> </ol>	Bug found in 1.1.2.10

## Resolved Caveats—Release 2.1.0.6

DDTS Number	Severity	Functional Area	Problem Description	Corrected	
Sn05204	0	Switch Redundancy	Redundant switchover ftp process gives no indication to the user when it is done.	New states added	Fixed
Sn05010	1	Alarm	Two loop timed OC3 ports connected together can cause alarm and SNMP storm.	Alarm is now integrated.	Fixed
Sn05271	1	Alarm	For OC3 port 2 changing from admin state up to test does not clear alarms. But for OC3 port 1 it does.	Alarms now cleared	Fixed
Sn05512	1	Loopback	Switch responds to DS1 far-end line loop request by looping errored data.	Now using payload loop	Fixed
Sn05518	1	Loopback	Taking DS1 or DS3 ports out of test does not clear the loops.	Loops now cleared	Fixed
Sn05293	1	Trunk Conditioning	For SF mode robbed bit, voice non-transparent, signalling CD bits are not ignored.	CD Bits are now ignored in this mode	Fixed

## Open Caveats — Release 2.1.0.6

Cisco MGX 8240 CPE/CS3 Switch software (Release 2.1.0.6) has some known problems. Every attempt has been made to address and resolve the problems of high severity. The table below lists known bugs, including all outstanding problems related to the CES modules and associated I/O ports. The second column is the defect severity. A number 0 would represent the greatest severity while a number 5 would be the least severe.

DDTS Number	Severity	Functional Area	Problem Description	Corrected	
Sn04840	1	Switch Shaping	Policing on Ascend 550 causes inband cells to be dropped because Maximum Burst Size (MBS) is not configurable and fixed to 1024 cells.	Do not turn on policing at Ascend or set it to 1024 cells	Same as 1.1.2.10
Sn04752	3	Switch Craft Interface	Double ESC required to exit from DS1 statistics window on Craft Interface.		Same as 1.1.2.10
Sn05174	0	Xyplex	FTP failed sometimes due to Xyplex's problem.	Pending on Xyplex new fix.  Similar problem exists with IMC.	Same as 1.1.2.10

Sn05203	2	BERT	Circuit will not pass data if it is created while DS1s on both ends of a local circuit are under BERT.	Workaround: delete and create the circuit again after BERT is stopped.	Same as 1.1.2.10
Sn05554	1	FE Loopback	If the user manipulates the far-end DS1 loop modes more rapidly than the 1.5 second (the loop send code duration time), the far-end Larscom CSU/DSU and the Cisco MGX 8240 DS1 port are both in a loop up mode. Once this happens, the loop down command issued from NMS is unable to take Larscom CSU/DSU out of a loop.	Workaround: <ol style="list-style-type: none"> <li>1. On NMS go to the port's Near End Loopback. Invoke a Near End Loopback, then drop the loop.</li> <li>2. Go to the Far End Loopback and invoke the loop first and then drop it.</li> </ol>	Bug found in 1.1.2.10
Dm61874	2	Port State	When using OC3 IO, STS Path LOP and Label Mismatch will not automatically show a problem in the contained DS3 state.	Workaround: Look at OC3 state as well as DS3 state when using OC3 IO.	
Dm77697	2	Mfg record	Switch manufacturing record is not available for reading.	Will be fixed in FCS release.	Currently returns blank
Dm77794	2	Statistics	SONET FarEnd Line 24Hr UAS Threshold cannot be set.	Will be fixed in FCS release.	Defaulted to 10secs

## Related Documentation

### Hardware Documents

*Cisco MGX 8240 Hardware Installation Guide*, DOC-7810084=. Gives information on installing the MGX 8240, including physical connectivity, logical connectivity, and cabling.

*Cisco MGX 8240 Hardware User's Guide*, DOC-7810083=. Gives theory of operations and usage information on the MGX 8240. Details physical description, traffic management, and FDOS.

### Software Document

*Cisco MGX 8240 VCLI User's Guide*, DOC-7810082=. Gives information on installation and use of Virtual Command Line Interface (V-CLI) for MGX 8240. Details installation, provisioning, and specific commands for VCLI.

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- Telnet: [cco.cisco.com](http://cco.cisco.com)
- Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; databits: 8; parity: none; stop bits: 1; and connection rates up to 28.8 kbps.

For a copy of CCO's Frequently Asked Questions (FAQ), contact [cco-help@cisco.com](mailto:cco-help@cisco.com). For additional information, contact [cco-team@cisco.com](mailto:cco-team@cisco.com).

**Note**

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If you are a network administrator and need personal technical assistance with a Cisco product that is under warranty or covered by a maintenance contract, contact Cisco's Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or [tac@cisco.com](mailto:tac@cisco.com). To obtain general information about Cisco Systems, Cisco products, or upgrades, contact 800 553-6387, 408 526-7208, or [cs-rep@cisco.com](mailto:cs-rep@cisco.com).

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## Documentation CD-ROM

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